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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/568,694	09/18/2006	Hiroshi Ujiie	P29320	4550
7055 7590 03/24/2010 GREENBLUM & BERNSTEIN, P.L.C.			EXAMINER	
1950 ROLAND CLARKE PLACE		DICKINSON, PAUL W	N, PAUL W	
RESTON, VA 20191			ART UNIT	PAPER NUMBER
			1618	
			NOTIFICATION DATE	DELIVERY MODE
			03/24/2010	ELECTRONIC

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

gbpatent@gbpatent.com pto@gbpatent.com

# Office Action Summary

Application No.	Applicant(s)	Applicant(s)		
10/568,694	UJIIE ET AL.			
Examiner	Art Unit			
PAUL DICKINSON	1618			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET WHICHEVER IS LONGER, FROM THE MALINA O ATE OF LISTINGTON OF THE MALINA O ATE OF LISTINGTON OF THE MALINA O ATE OF LISTINGTON OF THE MALINA	THIS COMMUNICATION.  Event, however, may a reply be timely filed  will expire SIX (6) MONTHS from the mailing date of this communication.  pptication to become ABANDONED (35 U.S.C. § 133).					
Status						
1)⊠ Responsive to communication(s) filed on 17 September	<u>2009</u> .					
2a) This action is FINAL. 2b) This action is	non-final.					
<ol> <li>Since this application is in condition for allowance except</li> </ol>	ot for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte C	Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 1-10 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election	requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on 17 February 2006 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is requ						
11) The oath or declaration is objected to by the Examiner.	Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority u	nder 35 U.S.C. § 119(a)-(d) or (f).					
a) ⊠ All b) ☐ Some * c) ☐ None of:						
Certified copies of the priority documents have been received.      Certified copies of the priority documents have been received in Application No.						
Copies of the certified copies of the priority documents have been received in Application No      Copies of the certified copies of the priority documents have been received in this National Stage.						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the cer	,					
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date.					
3) M Information Disclosure Statement(s) (PTO/SB/06) Paper No(s)/Mail Date 9/26/2006 and 9/17/2009.	Other:    Other:   Other:   Other:					

Application/Control Number: 10/568,694

Art Unit: 1618

#### DETAILED ACTION

### Claim Rejections - 35 USC § 112, Second Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2, 6-8, and 10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is unclear what "expanded polytetrafluoroethylene" is. This term isn't defined by the specification. How would one determine if a certain polytetrafluoroethylene is expanded or not? Is there a baseline non-expanded polytetrafluoroethylene to compare expanded polytetrafluoroethylene to? Is expanded polytetrafluoroethylene a polytetrafluoroethylene with a certain volume? With a certain density?

It is unclear how silicone could be a polymer material containing carbon as a constitutional element. If "carbon as a constitutional element" means having carbon as the main element present, either by number or weight, most silicones would not fall into this category, and would not be considered "polymer materials containing carbon as a constitutional element". For example, many oligosiloxanes have the general formula R<sub>n</sub>SiX<sub>m</sub>O<sub>y</sub>, where R is a non reactive substituent, usually Me, and X is a functional group such as H, OH, or Cl. In this case, as with most silicones, carbon is not the main element present, either by number or weight, and thus would not be considered a polymer material "containing carbon as a constitutional element".

Application/Control Number: 10/568,694

Art Unit: 1618

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by US 20020155295 ('295). '295 discloses a method comprising bombarding ions onto expanded polytetrafluoroethylene (ePTFE) (a polymer material containing carbon as a constitutional element) with a dose volume of  $1 \times 10^{13}$  to less than  $1 \times 10^{16}$  ions/cm² (see abstract; paragraphs 5-17; examples). This satisfies claims 1-2, 4-6, and 8-10. The acceleration energy is between 50 KeV to 150 KeV (i.e between 50 KeV to 0.150 MeV) (see paragraph 42). This satisfies instant claims 3 and 7.

The recitation "a material for treating aneurysms" is an intended use limitation.

The recitation of an intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In the instant case, '295 discloses a material composed of a polymer material containing carbon as a constitutional element, produced by modifying at least a portion of the surface thereof by ion bombardment. The material of '295 meets all the structural requirements of the instant claims and is therefore fully capable of being used for the intended use, i.e. treating aneurysms.

Art Unit: 1618

Claims 1-10 are rejected under 35 U.S.C. 102(b) as being anticipated by US 5891192 ('192). '192 discloses a material for treating aneurysms (see abstract), which may be composed of a bioabsorbable polymer, such as poly-L-lactide (polylactic acid; a polymer material containing carbon as a constitutional element) (see col 2, lines 36-63), which is produced by modifying at least a portion of the surface thereof by ion bombardment (see col 1, line 56 to col 2, line 15). This satisfies claims 1-2 and 6. The dose volume may be 1 x 10<sup>15</sup> ions/cm² (see col 4, lines 15-17). This satisfies instant claims 4-5 and 8-10. The acceleration energy may be about 10 KeV to 1000 KeV (see col 3, lines 15-28). This satisfies instant claims 3 and 7.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAUL DICKINSON whose telephone number is (571)270-3499. The examiner can normally be reached on Mon-Thurs 9:00am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Hartley can be reached on 571-272-0616. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Eric E Silverman/ Primary Examiner, Art Unit 1618 Paul Dickinson Examiner AU 1618